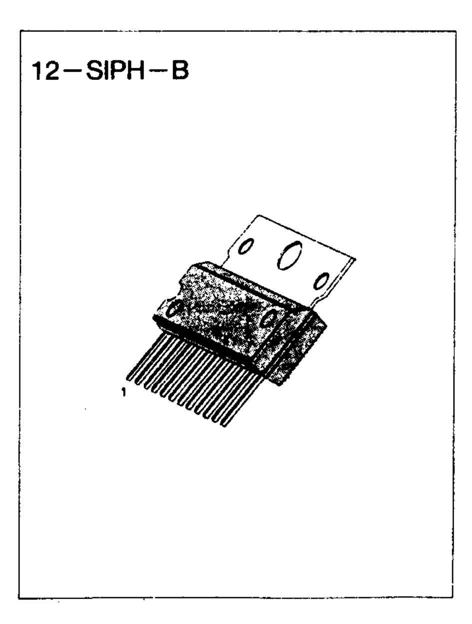
4.6W DUAL POWER AMP

The KA22065 is a monolithic integrated circuit consisting of a 2-channel power amplifier with power on/off (stand-by switch) function. It is suitable for portable radio cassette recorders.



FEATURES

- **2-channel amplifier: 4.6W×2 (typ.)**
- **Low quiescent circuit current: I_{CC}=21mA (typ.)**
- **High output (P_O=4.6W, V_{CC}=12V/8W)**
- **Small pop noise at power on**
- **Minimum external parts required**
- **Supply voltage: 6 V to 15 V**
- **Includes the thermal protection circuit**
- **Connect H/S to GND**

ORDERING INFORMATION

Device	Package	Operating Temperature
KA22065	12-SIPH-B	−20~+70°C

BLOCK DIAGRAM

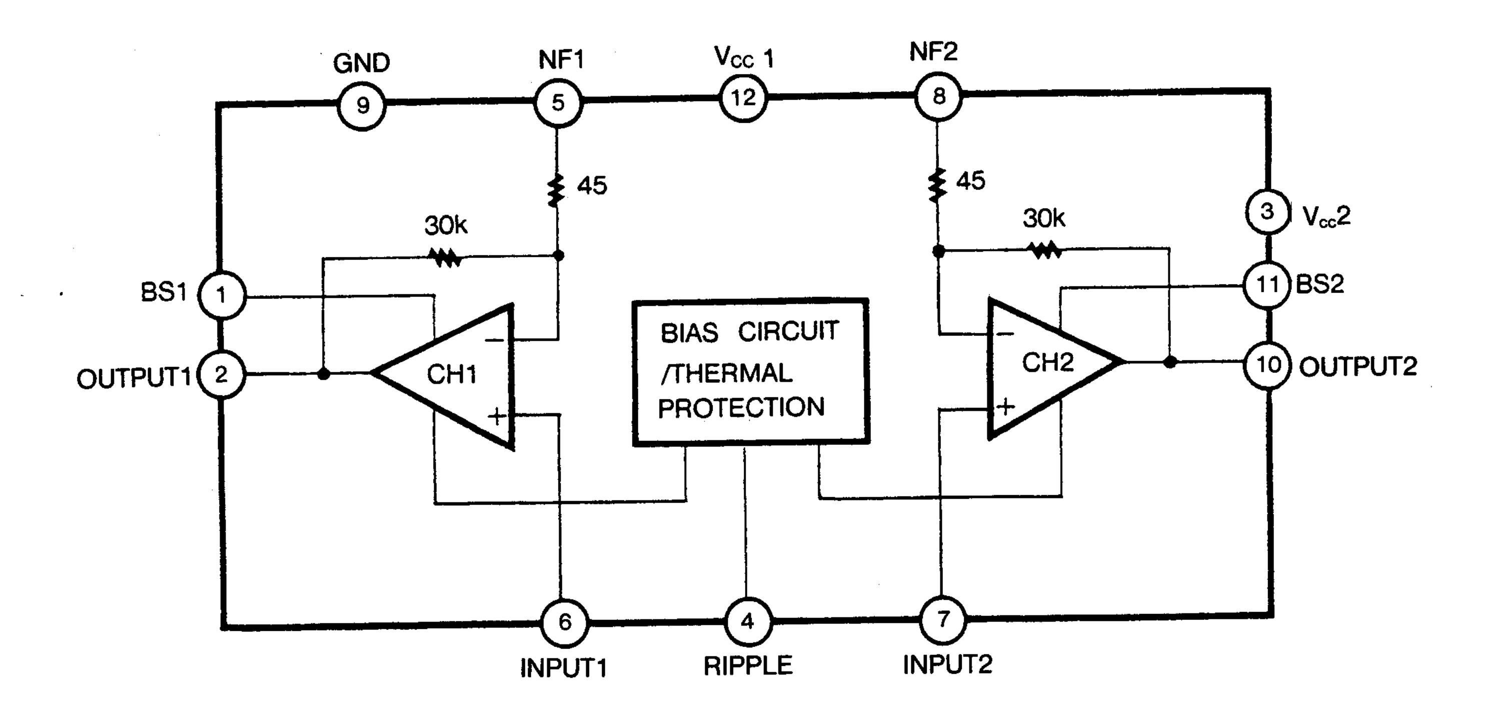


Fig. 1.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	V_{CC}	20	V
Output Current (Channel)	I_O (peak)	2.5	A
Power Dissipation	P_d	12.5	W
Operating Temperature	T_{opr}	−20∼+70	°C
Storage Temperature	T_{stg}	−40∼+150	°C

ELECTRICAL CHARACTERISTICS

(Ta=25°C, V_{CC}=9V, R_L=4Ω, f=KHz, R_g=600Ω, unless otherwise specified)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Quiescent Circuit Current	I_{CC}	V_i=0		21	45	mA
Output Power	P_O1	THD=10%	2.0	2.5		W
	P_O2	THD=10%, V_{CC}=12V	4.0	4.6		W
Total Harmonic Distortion	THD	P_O=1W/CH		0.2	0.9	%
Voltage Gain (Closed Loop)	AV_1	R_f=120Ω, V_O=0.775V	43	45	47	dB
	AV_2	R_f=0Ω, V_O=0.775V	54.5	56.5	58.5	dB
Input Resistance	R_i		24	30	36	KΩ
Output Noise Voltage	V_{NO}	R_g=10KΩ, BW=20Hz-20KHz		0.3	1.0	mV
Ripple Rejection Ratio	R R	R_g=600Ω, f=120Hz	44	52		dB
Cross Talk	C.T	R_g=10KΩ, V_O=0dBm, f=1KHz	40	50		dB
Input Offset Voltage	V_5,V_7			30	60	mV
Stand By Current	I_{sb}	SW1 Off		1	20	μA

TEST AND APPLICATION CIRCUIT

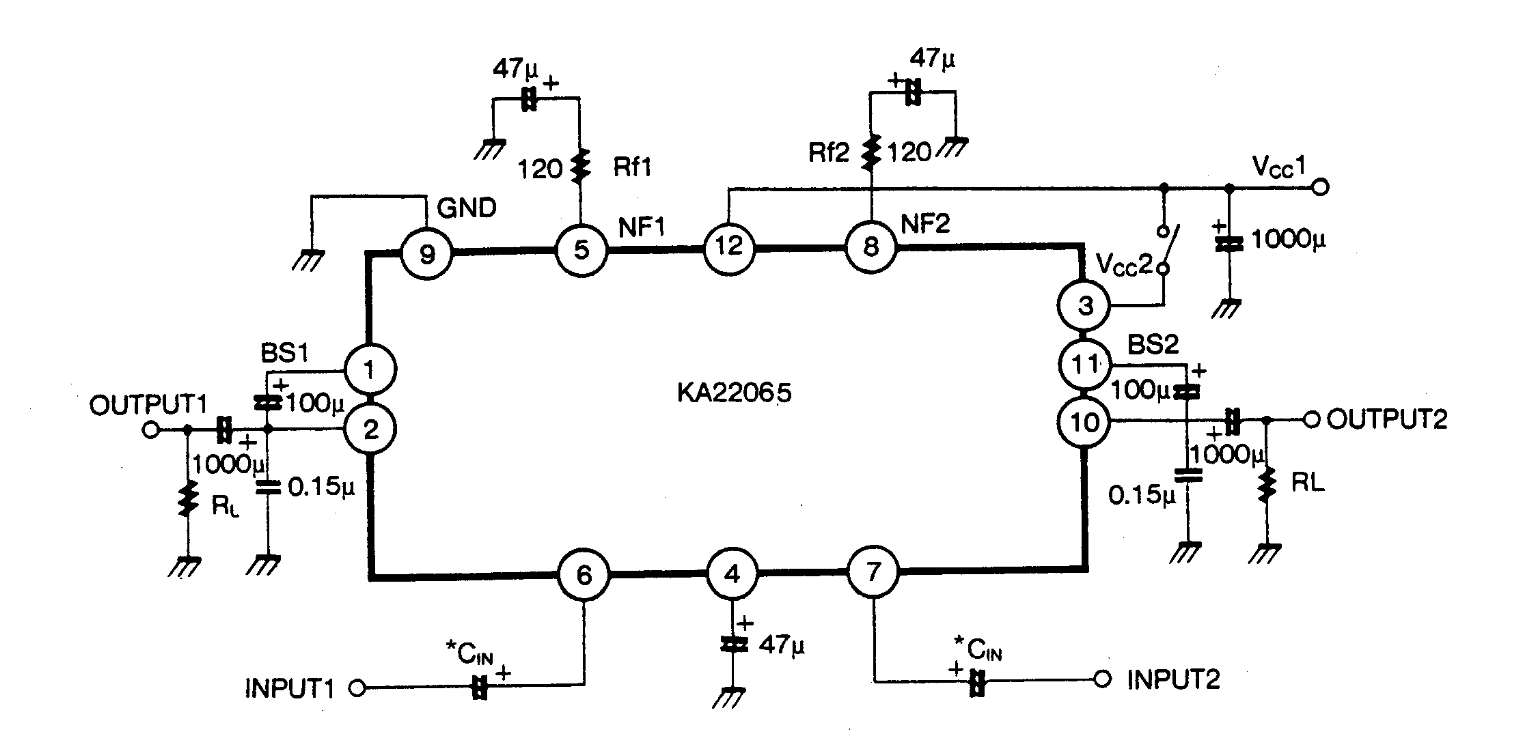


Fig. 2.